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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/088,089	08/07/2002	Laurent Joret	21992US2PCT	7122
	7590 10/22/2004		EXAMINER	
OBLON, SPIVAK, MCCLELLAND, MAIER & NEUSTADT, P.C. 1940 DUKE STREET ALEXANDRIA, VA 22314			BLACKWELL RUDASIL, GWENDOLYN A	
			ART UNIT	PAPER NUMBER
			1775	

DATE MAILED: 10/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summan	10/088,089	JORET ET AL.			
Office Action Summary	Examiner	Art Unit			
	Gwendolyn A. Blackwell-Rudasill	1775			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be timed within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from CAUSE the application to become ARANDONE.	nely filed s will be considered timely. the mailing date of this communication.			
Status					
1) Responsive to communication(s) filed on 25 Ma	av 2004				
. ` 	action is non-final.	× .			
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,,				
	in the application				
4) Claim(s) <u>23-29,32-37 and 39-64</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>45</u> is/are rejected.					
7)⊠ Claim(s) <u>32-37,39-44,46-64 and 2329</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or		· ·			
Application Papers	oreand	•.			
9) The specification is objected to by the Examiner					
10) The drawing(s) filed on is/are: a) acce					
Applicant may not request that any objection to the d					
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Exa	on is required if the drawing(s) is objective.	ected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Exa	iminer. Note the attached Office A	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
12)⊠ Acknowledgment is made of a claim for foreign p a)⊠ All b)□ Some * c)□ None of:	priority under 35 U.S.C. § 119(a)-	(d) or (f).			
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary (F	PTO-413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date	e			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal Pat 6) Other:	ent Application (PTO-152)			
U.S. Patent and Trademark Office		of Paper No./Mail Date 20041018			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claim 45 is rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over International Patent Application Publication no. 97/43224, WO '224.
- WO '224 disclose a transparent substrate comprising on at least one face of the substrate an antireflection coating made of a stack of thin layers of dielectric materials, (abstract). The antireflective coating is comprised of an intermediate index first layer having an optical

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thickness of between 100 and 140 nm, a high index second layer having an optical thickness of between 210 and 260 nm, and a low index third layer having an optical thickness of between 100 and 150 nm, (page 13, lines 10-21). The intermediate index of refraction ranges from 1.70-1.85, the low index ranges from 1.32-1.70, and the high index ranges from 1.9-2.6, (page 6, lines 3-24).

In the alternative, absent a showing of criticality with respect to thickness (a result effective variable), it would have been obvious to a person of ordinary skill in the art at the time of the invention to adjust the thickness through routine experimentation in order to achieve an antireflective coating that provides the desired light reflection and light transmission, (page 13, lines 23-27). It has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

4. Claim 45 is rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over United States Patent no. 6,068,914, Boire et al

Boire et al disclose a transparent substrate comprising on at least one face of the substrate an antireflection coating, (column 1, lines 5-8). The antireflective coating is comprised of an intermediate index first layer having an optical thickness of between 100 and 140 nm, a high index second layer having an optical thickness of between 210 and 260 nm, and a low index third layer having an optical thickness of between 100 and 150 nm, (column 14, lines 43-52). The intermediate index of refraction ranges from 1.70-1.85, the low index ranges from 1.32-1.70, and the high index ranges from 1.9-2.6, (column 4, lines 10-33).

In the alternative, absent a showing of criticality with respect to thickness (a result effective variable), it would have been obvious to a person of ordinary skill in the art at the time

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of the invention to adjust the thickness through routine experimentation in order to achieve an antireflective coating that provides the desired light reflection and light transmission, (page 13, lines 23-27). It has been held that discovering an optimum value of a result effective variable involves only routine skill in the art. In re Boesch, 617 F.2d 272, 205 USPQ 215 (CCPA 1980).

Response to Arguments

5. Applicant's arguments, see pages 13-15, filed May 25, 2004, with respect to the rejection(s)of claim(s) 23-29, 32-37, and 39-44 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection for new claim 45 is made as set forth above.

Allowable Subject Matter

6. Claims 23-29, 32-37, 39-44, and 46-64 are allowed over the prior art of record in view of Applicant's amendments and reasons previously stated in the February 25, 2004 office action.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after

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the end of the THREE-MONTH shortened statutory period, then the shortened statutory period

will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Gwendolyn A. Blackwell-Rudasill whose telephone number is

(571) 272-1533. The examiner can normally be reached on Monday - Thursday; 5:30 am - 4:00

pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Deborah Jones can be reached on (571) 272-1535. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gwendolyn A. Blackwell-Rudasill

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Examiner

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SUPERVISORY PATENT EXAMINER